

**TRILOBITE
TESTING, INC.**

DRILL STEMTEST REPORT

Prepared For: **SGJ & Assoc. Inc.**

1515 Wynkoop Ste 700
Denver CO 80202

ATTN: Tom Feral

Miller-Leiker 1-28

28 14s 17w Ellis

Start Date: 2012.06.23 @ 12:00:00

End Date: 2012.06.23 @ 18:40:00

Job Ticket #: 47406 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.06.24 @ 11:35:36



**TRILOBITE
TESTING, INC.**

DRILL STEMTEST REPORT

SGJ & Assoc. Inc.
1515 Wynkoop Ste 700
Denver CO 80202
ATTN: Tom Fertal

28 14s 17w Elis
Miller-Leiker 1-28
Job Ticket: 47406 **DST#: 1**
Test Start: 2012.06.23 @ 12:00:00

GENERAL INFORMATION:

Formation: **LKC "F&G"**
 Deviated: Nb Whipstock: 1965.00 ft (KB)
 Time Tool Opened: 14:16:30
 Time Test Ended: 18:40:00
 Interval: **3296.00 ft (KB) To 3329.00 ft (KB) (TVD)**
 Total Depth: 3329.00 ft (KB) (TVD)
 Hble Diameter: 7.88 inches Hble Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jim Svaty
 Unit Nr: 41
 Reference Elevations: 1965.00 ft (KB)
 1957.00 ft (CF)
 KB to GR/CF: 8.00 ft

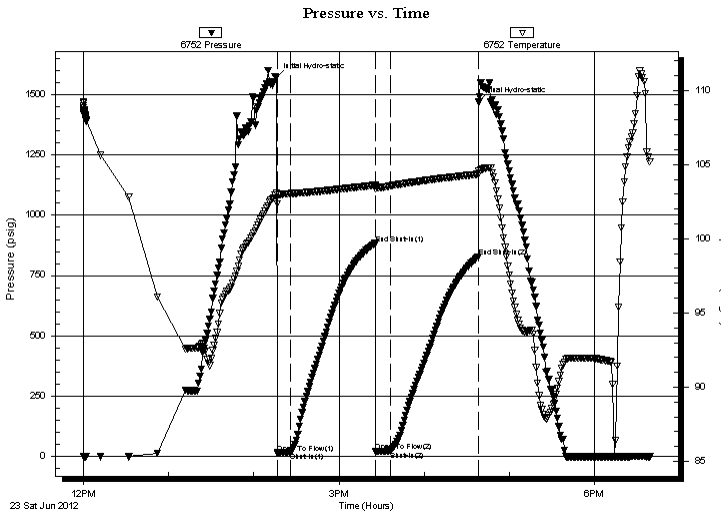
Serial #: 6752

Inside

Press @ Run Depth: 22.35 psig @ 3297.00 ft (KB)
 Start Date: 2012.06.23 End Date: 2012.06.23
 Start Time: 12:00:01 End Time: 18:39:00
 Capacity: 8000.00 psig
 Last Calib.: 2012.06.23
 Time On Btm: 2012.06.23 @ 14:16:00
 Time Off Btm: 2012.06.23 @ 16:38:30

TEST COMMENT: 10-IFP: Weak Surface Blow Died in 4min
 60-ISIP: No Blow
 10-FFP: Weak Surface Blow Died in 2min
 60-FSIP: No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1572.16	103.06	Initial Hydro-static
1	12.69	102.33	Open To Flow (1)
10	18.52	103.04	Shut-In (1)
70	882.95	103.61	End Shut-In (1)
70	19.63	103.35	Open To Flow (2)
80	22.35	103.56	Shut-In (2)
142	826.96	104.34	End Shut-In (2)
143	1469.64	104.56	Final Hydro-static

Recovery

Length (ft)	Description	Vdume (tbl)
7.00	OSM100%am	0.03

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



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 Denver CO 80202
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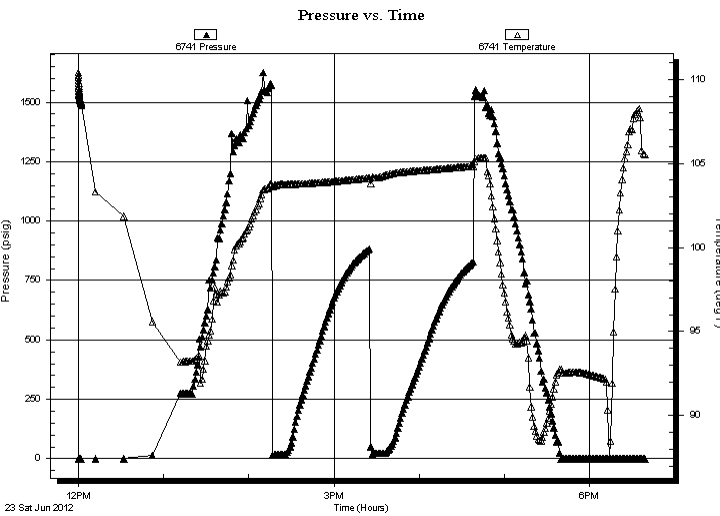
28 14s 17w Elis
Miller-Leiker 1-28
 Job Ticket: 47406 **DST#: 1**
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 Tester: Jim Svaty
 Unit Nr: 41
 Reference Elevations: 1965.00 ft (KB)
 1957.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6741 **Outside**
 Press @ Run Depth: psig @ 3297.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.06.23 End Date: 2012.06.23 Last Calib.: 2012.06.23
 Start Time: 12:00:01 End Time: 18:39:00 Time On Btm
 Time Off Btm

TEST COMMENT: 10-IFP: Weak Surface Blow Died in 4min
 60-ISIP: No Blow
 10-FFP: Weak Surface Blow Died in 2min
 60-FSIP: No Blow



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Vdume (bbl)
7.00	OSM100%am	0.03

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



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DRILL STEMTEST REPORT

TOOL DIAGRAM

SGJ & Assoc. Inc.
1515 Wynkoop Ste 700
Denver CO 80202
ATTN: Tom Fertal

28 14s 17w Elis
Miller-Leiker 1-28
Job Ticket: 47406 **DST#: 1**
Test Start: 2012.06.23 @ 12:00:00

Tool Information

Drill Pipe:	Length: 3250.00 ft	Diameter: 3.80 inches	Volume: 45.59 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 45.74 bbl</u>	Tool Chased: 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3296.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	68.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length(ft)	Serial No.	Position	Depth (ft)	Accum Lengths
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Change Over Sub	1.00			3262.00	
Recorder	0.00	8365	Fluid	3262.00	
Blank Spacing	5.00			3267.00	
Shut In Tool	5.00			3272.00	
Sampler	2.00			3274.00	
Hydraulic tool	5.00			3279.00	
Jars	5.00			3284.00	
Safety Joint	2.00			3286.00	
Packer	5.00			3291.00	35.00 Bottom Of Top Packer
Packer	5.00			3296.00	
Stubb	1.00			3297.00	
Recorder	0.00	6752	Inside	3297.00	
Recorder	0.00	6741	Outside	3297.00	
Perforations	29.00			3326.00	
Bullnose	3.00			3329.00	33.00 Bottom Packers & Anchor

Total Tool Length: 68.00



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FLUID SUMMARY

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ATTN Tom Feral

28 14s 17w Elis
Miller-Leiker 1-28
Job Ticket: 47406 **DST#: 1**
Test Start: 2012.06.23 @ 12:00:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 cm ³	Gas Cushion Type:		
Resistivity: ohmm	Gas Cushion Pressure: psig		
Salinity: 3800.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
7.00	OSM100% _m	0.034

Total Length: 7.00ft Total Volume: 0.034 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Serial # 6752

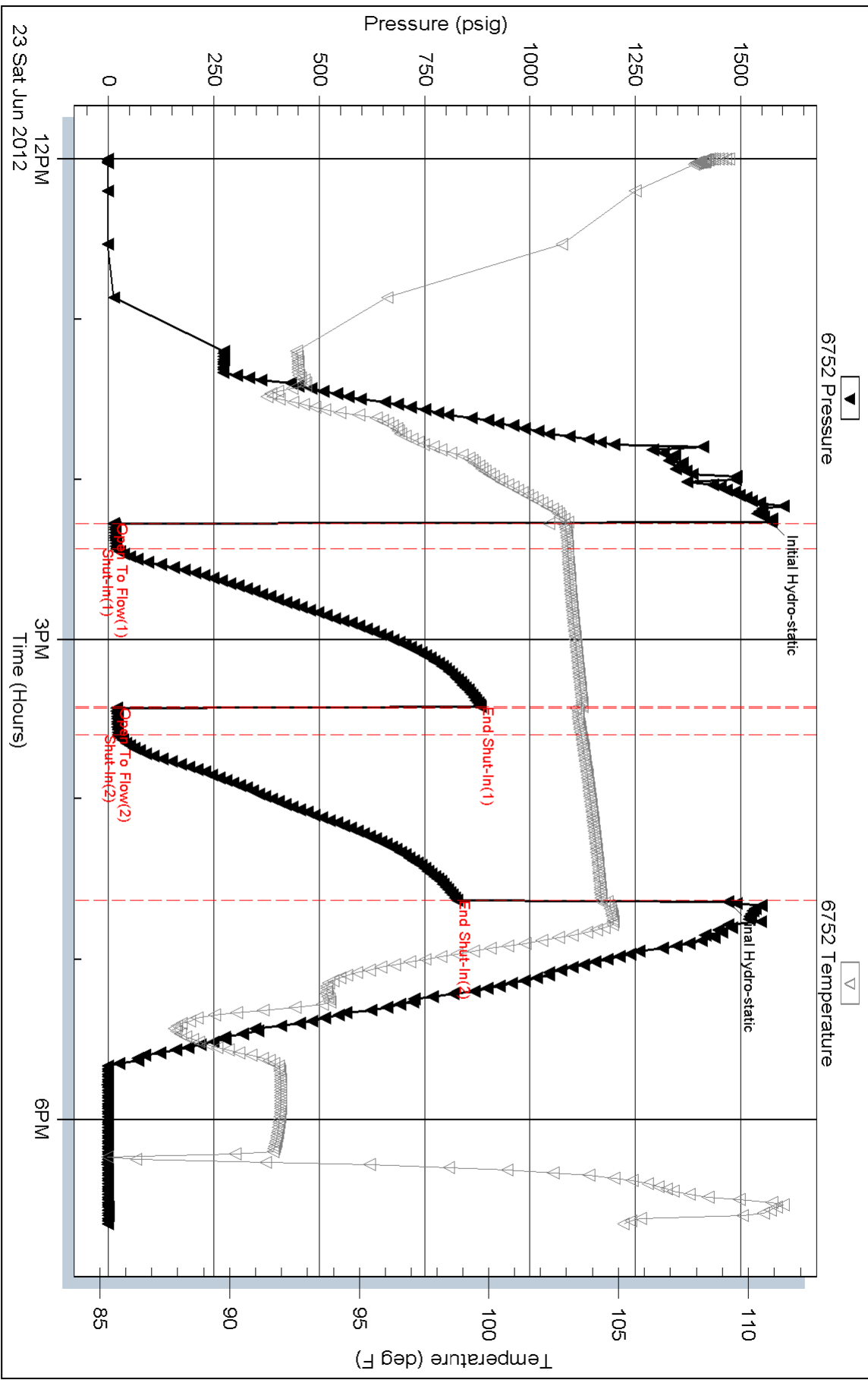
Inside

SGJ & Assoc. Inc.

Miller-Lelker 1-28

DST Test Number: 1

Pressure vs. Time



Trioxide Testing, Inc

Ref. No: 47406

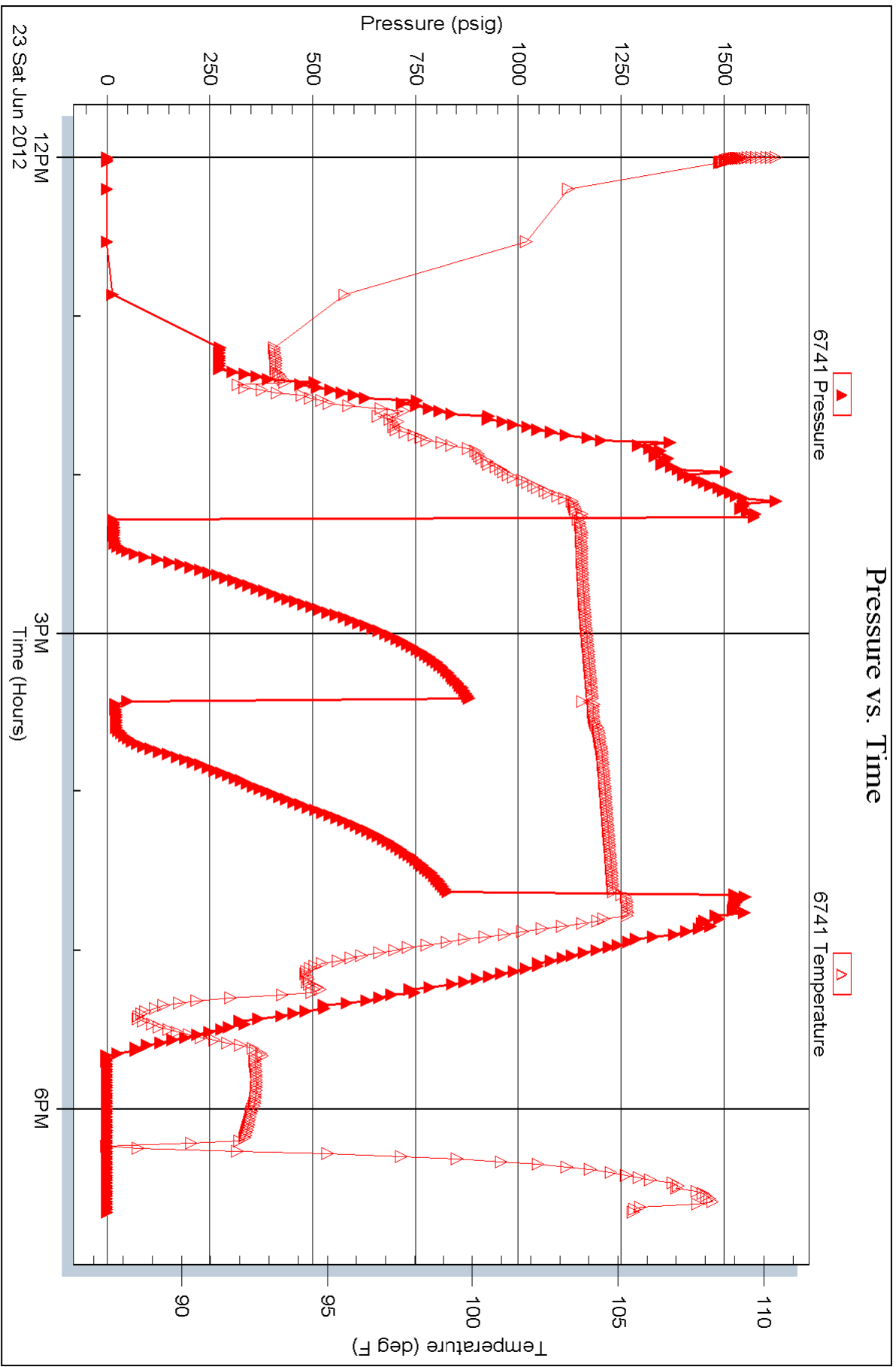
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Serial # 6741

Outside SGI & Assoc. Inc.

Miller-Lelker 1-28

DST Test Number: 1



Triadite Testing, Inc

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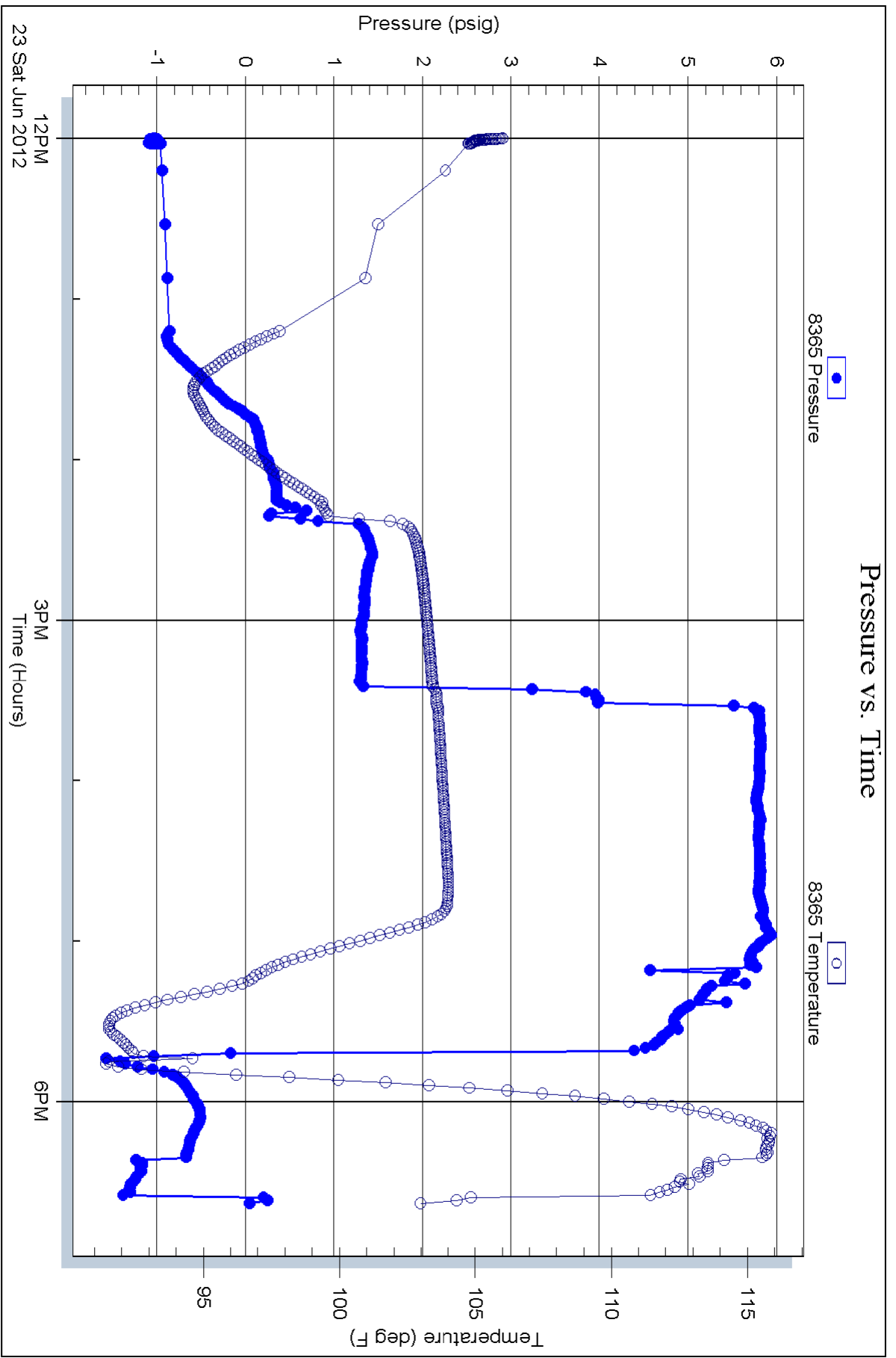
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Fluid

SGJ & Assoc. Inc.

Miller-Lelker 1-28

DST Test Number: 1



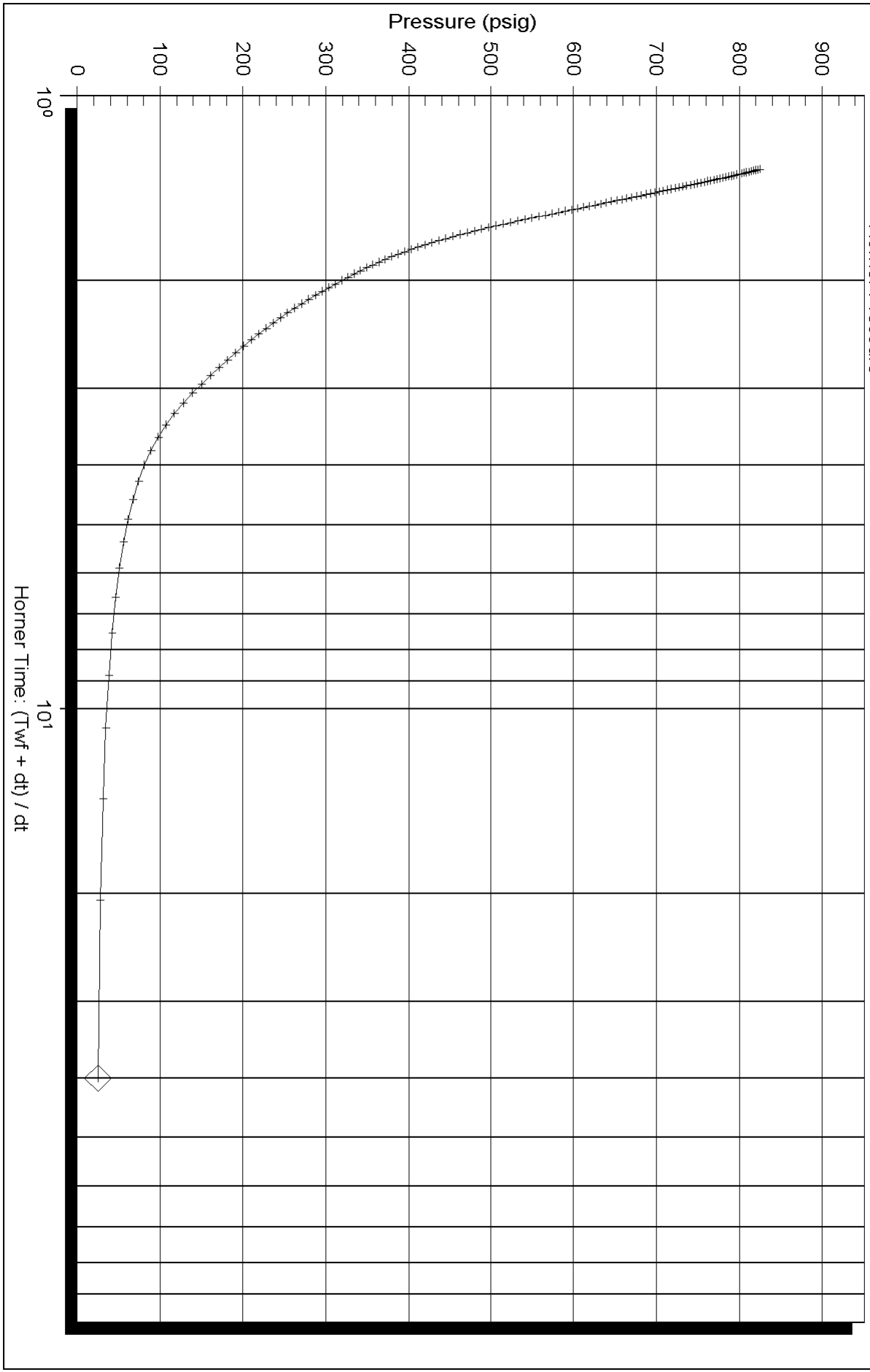
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Horner Plot

Horner Pressure +



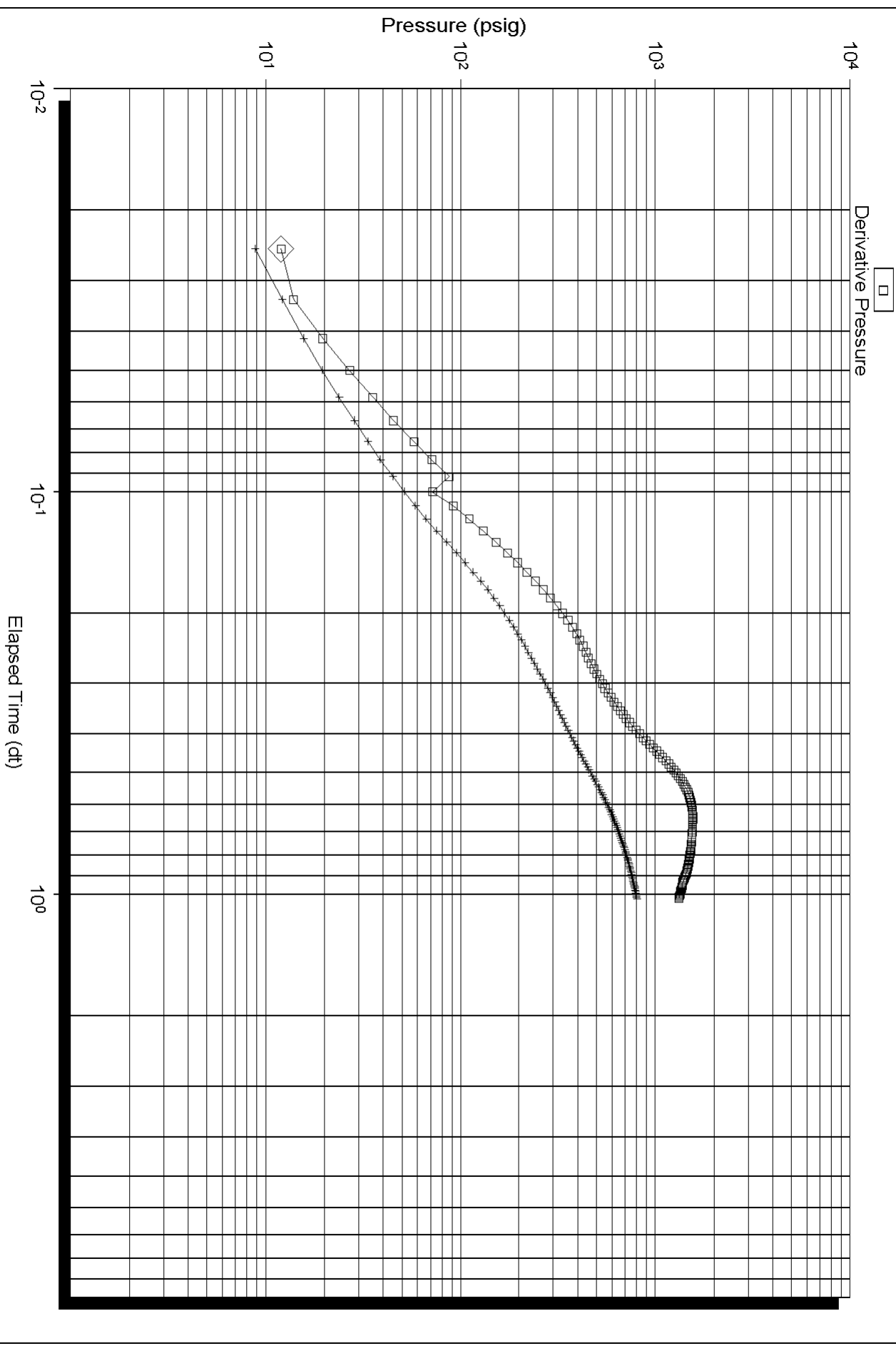
Serial Number: 6752 (Inside)

Pr :

Slope (m) : kpa/log cycle

Flow/Cycle: 2

Log-Log and Pseudo-Derivative



Serial Number: 6752 (Inside)

Flow Cycle: 2